

Fig. 1

## General hinge construction

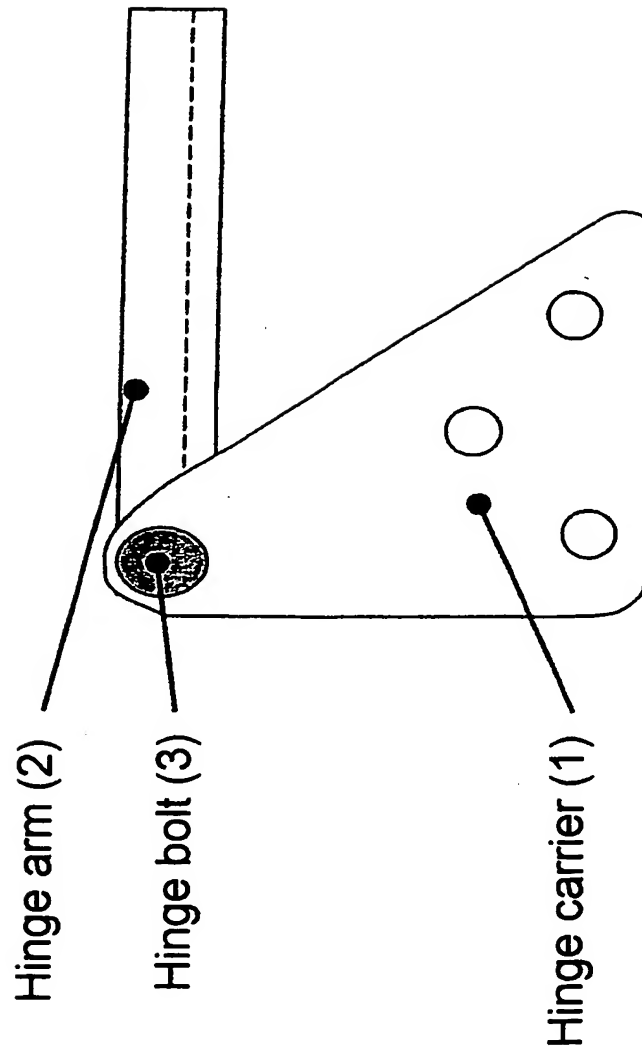
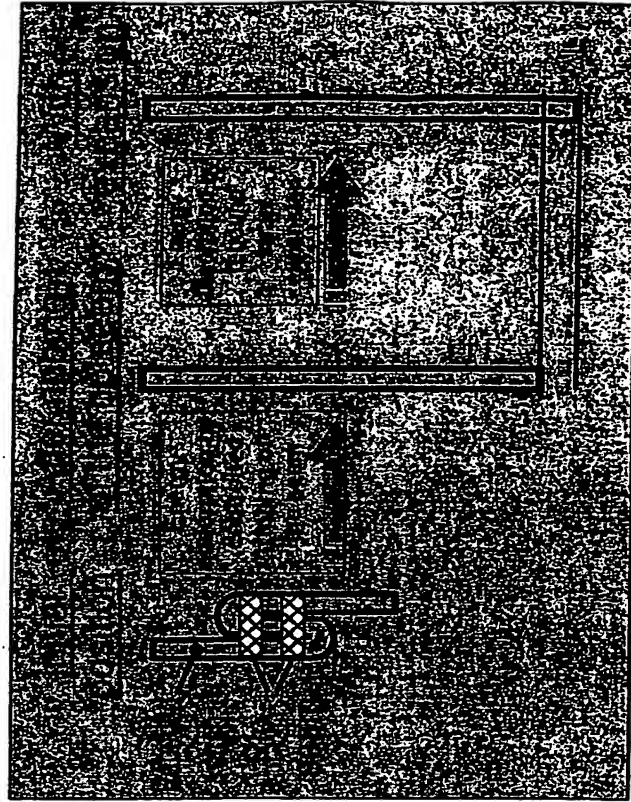
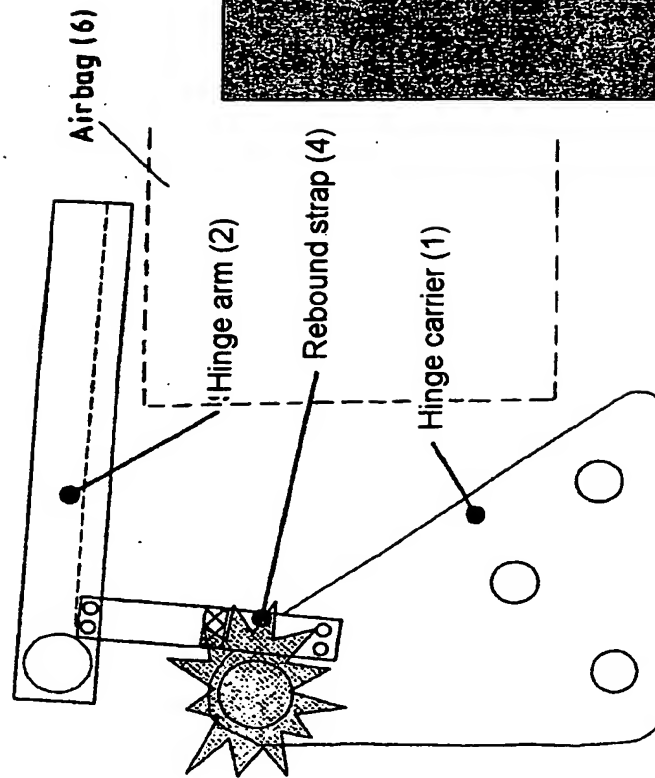
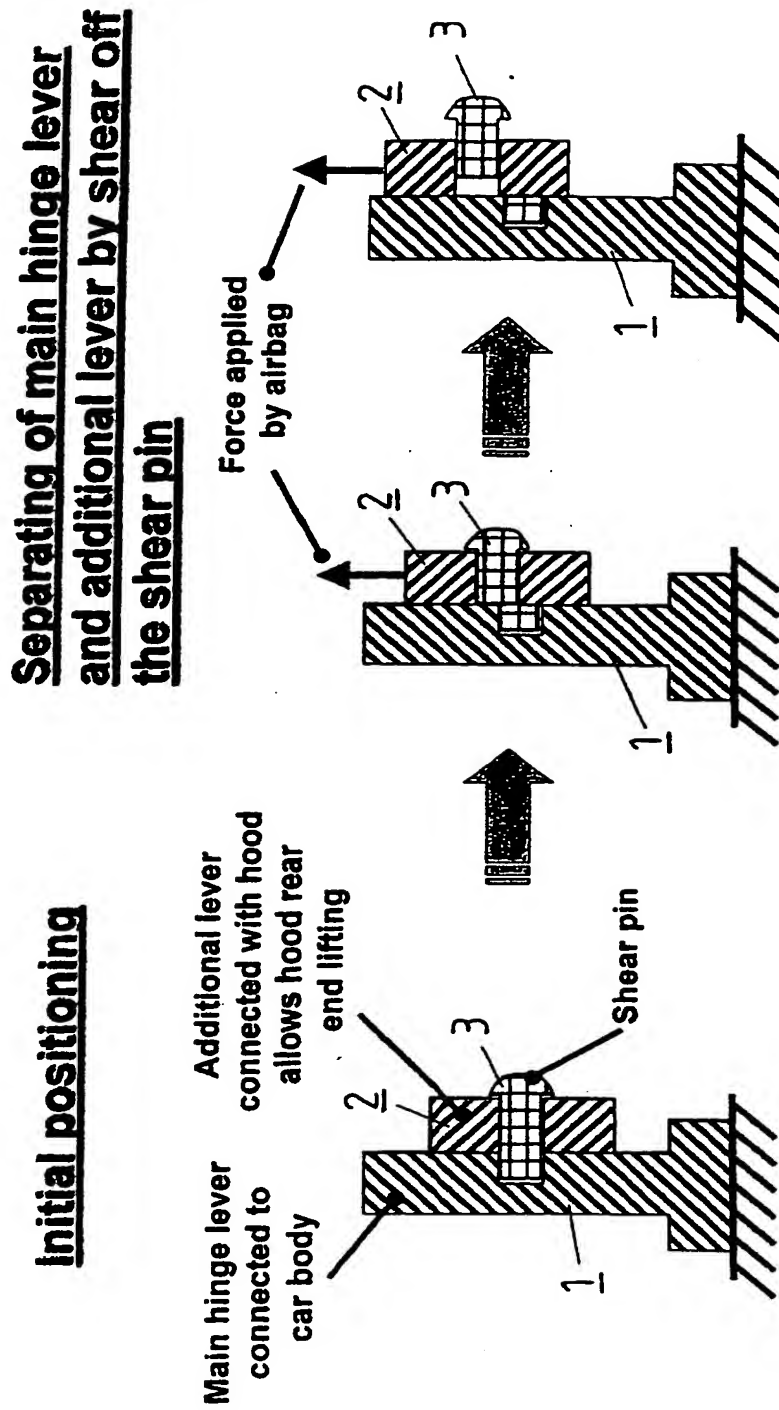


Fig. 2  
Released engine hood hinge

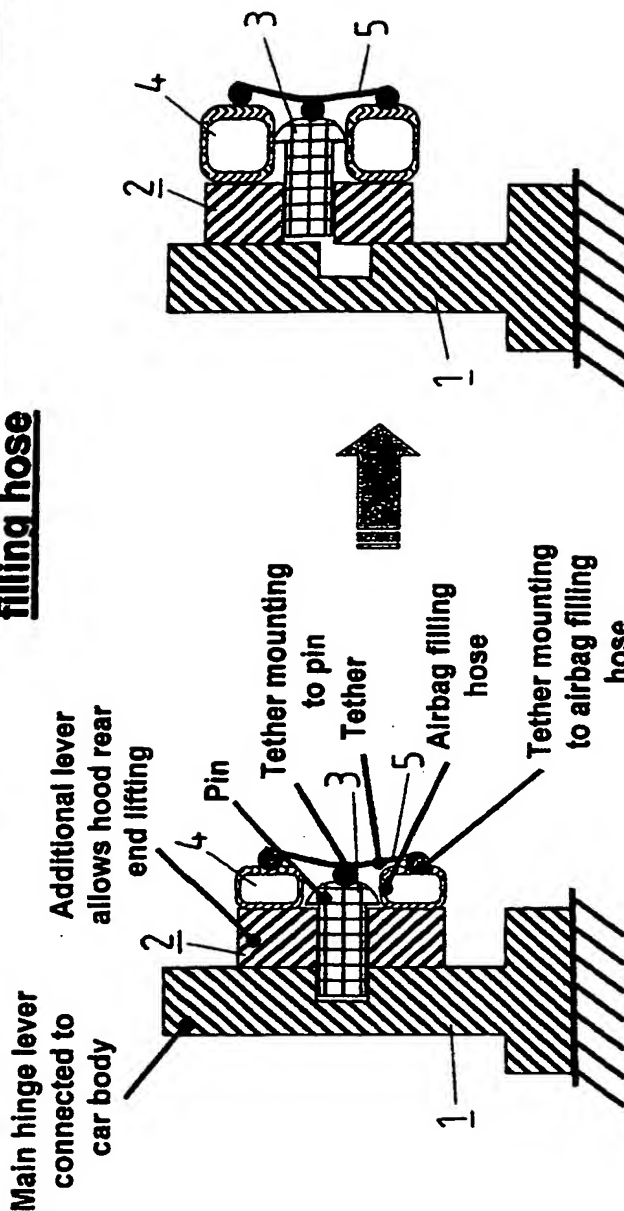


**Fig. 3** Hood release concepts - shear pin separating -



**Fig. 4** Hood release concepts - airbag bypass -

**Initial positioning**  
**Separating of main hinge lever**  
**and additional lever by deployed**  
**filling hose**

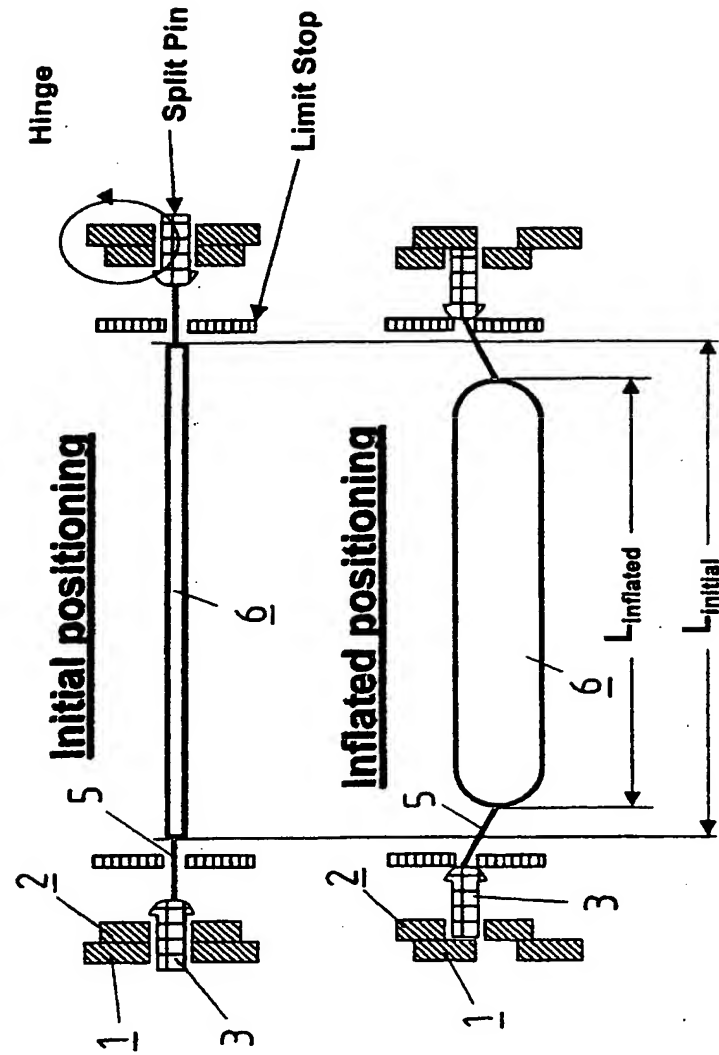


Spring-loaded repositioning

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Fig. 5

## Hood release concepts - airbag lengthwise contraction-

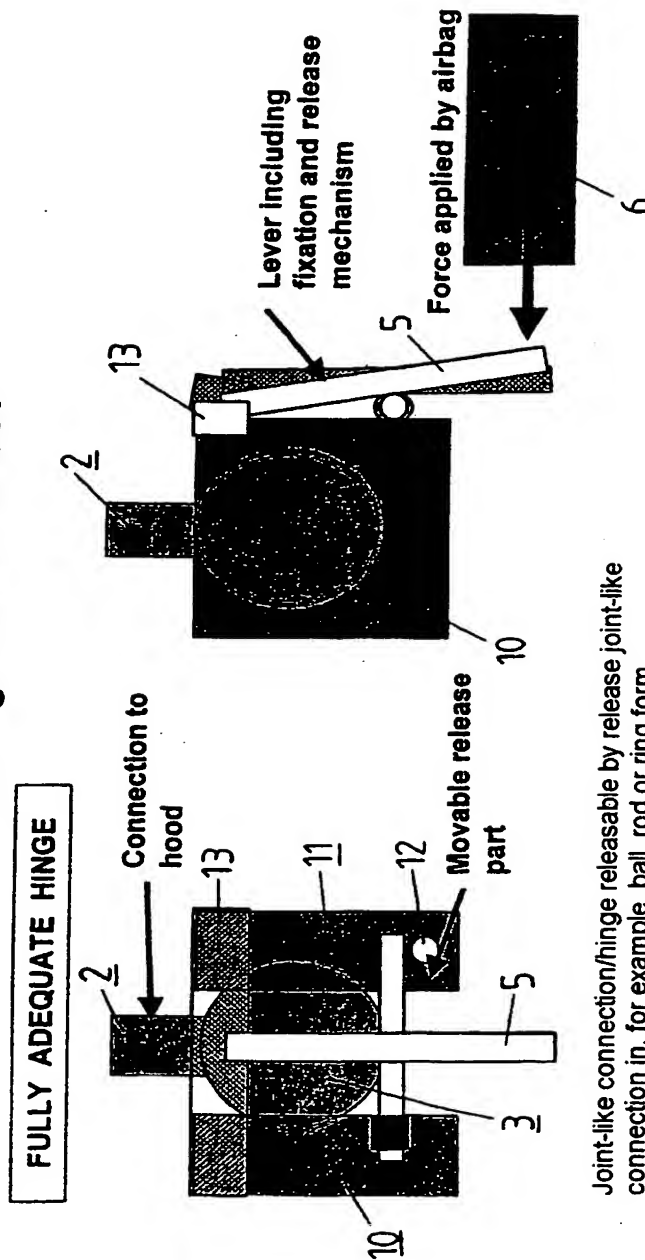


Spring-loaded repositioning

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**Fig. 6** Ideas of hood releasing concepts  
- airbag initiated release-



Joint-like connection/hinge releasable by release joint-like connection in, for example, ball, rod or ring form

Ball and socket joint embodiment: for example, mounted in half shells which can be opened up, as a high-quality engine hood/hinge

- at least one half shell movable
- half shell fixed via activatable mount
- mount activatable directly or indirectly via at least one part of the airbag system or separate device

Spring-loaded repositioning

**Fig. 7** Ideas of hood releasing concepts  
- decoupling by using force level, direction and deformation properties-

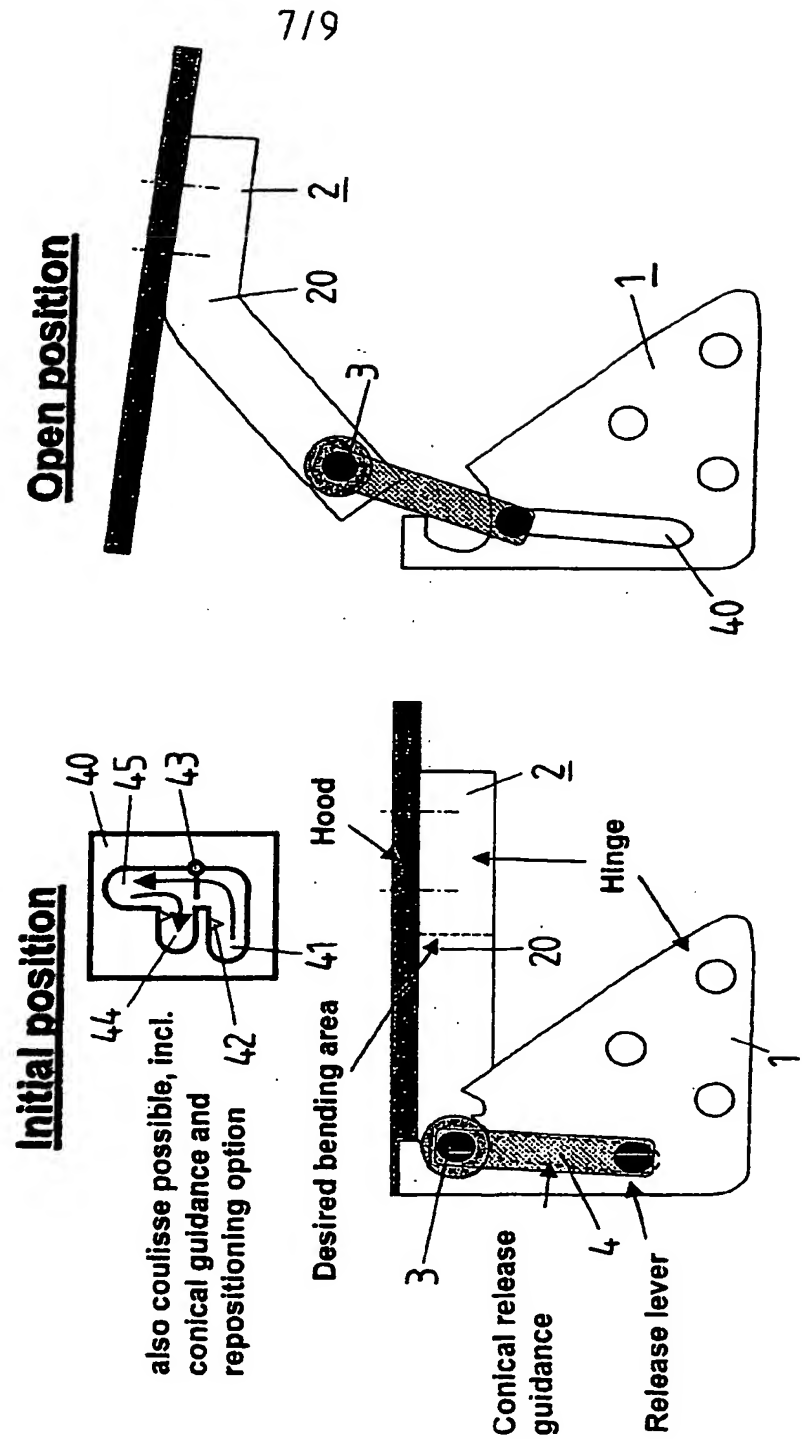
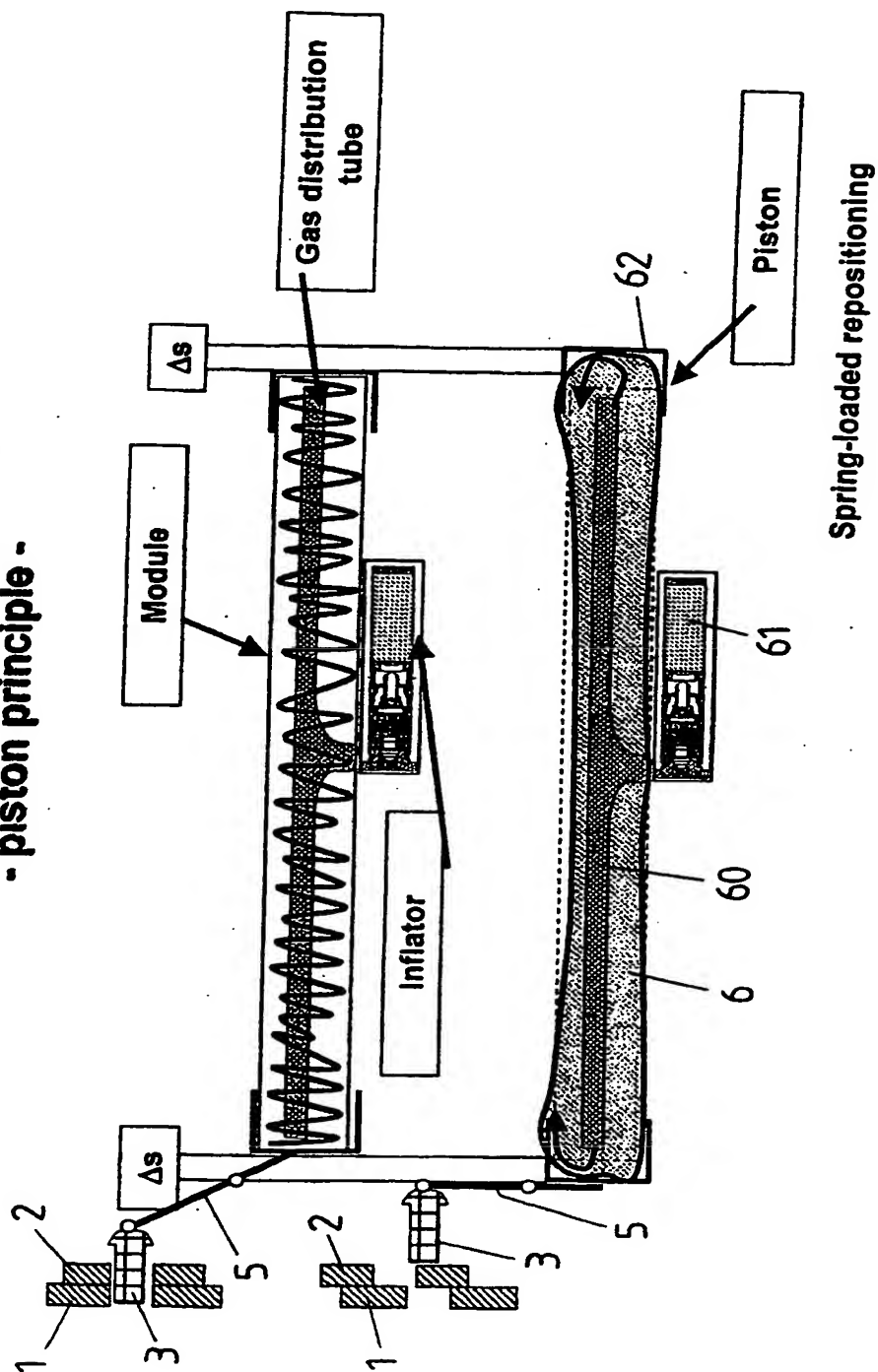


Fig. 8





**Fig. 9**  
**Improved gasflow for homogeneously lifting of hood**

